```
 NEWS 19  JUL 26  USPATFULL/USPAT2 enhanced with IPC reclassification
 NEWS 20  JUL 30  USGENE now available on STN
 NEWS 21  AUG 06  CAS REGISTRY enhanced with new experimental property tags
 NEWS 22  AUG 06  BEILSTEIN updated with new compounds
 NEWS 23  AUG 06  FSTA enhanced with new thesaurus edition
 NEWS 24  AUG 13  CA/CAplus enhanced with additional kind codes for granted
                  patents
 NEWS 25  AUG 20  CA/CAplus enhanced with CAS indexing in pre-1907 records
 NEWS 26  AUG 27  Full-text patent databases enhanced with predefined
                  patent family display formats from INPADOCDB
 NEWS 27  AUG 27  USPATOLD now available on STN
 NEWS 28  AUG 28  CAS REGISTRY enhanced with additional experimental
                  spectral property data

 NEWS 29  SEP 07  STN AnaVist, Version 2.0, now available with Derwent
                  World Patents Index

 NEWS EXPRESS  05 SEPTEMBER 2007:  CURRENT WINDOWS VERSION IS V8.2,
               CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
               AND CURRENT DISCOVER FILE IS DATED 05 SEPTEMBER 2007.

 NEWS HOURS    STN Operating Hours Plus Help Desk Availability
 NEWS LOGIN    Welcome Banner and News Items
 NEWS IPC8     For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that
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* * * * * * * * * * * * * * * STN  Columbus  * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 16:53:27 ON 12 SEP 2007

=> file registry
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                     0.21       0.21

FILE 'REGISTRY' ENTERED AT 16:53:36 ON 12 SEP 2007
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Property values tagged with IC are from the ZIC/VINITI data file
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STRUCTURE FILE UPDATES:   11 SEP 2007  HIGHEST RN 946658-01-1
DICTIONARY FILE UPDATES:  11 SEP 2007  HIGHEST RN 946658-01-1

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TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

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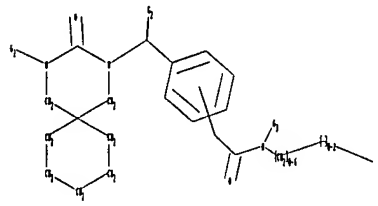
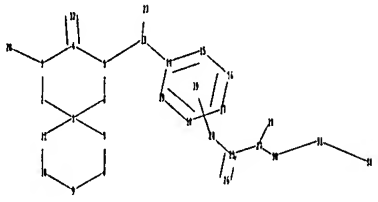
```

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=>
Uploading C:\Program Files\Stnexp\Queries\10 series\10537187\10537187e.str





chain nodes :
12 13 20 23 24 25 26 27 28 30 31 38
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 14 15 16 17 18 19
chain bonds :
3-20 4-12 5-13 13-14 13-23 24-25 25-26 25-27 27-28 27-30 30-31 31-38
ring bonds :
1-2 1-6 1-7 1-11 2-3 3-4 4-5 5-6 7-8 8-9 9-10 10-11 14-15 14-19 15-16 16-17 17-18 18-19
exact/norm bonds :
1-2 1-6 1-7 1-11 2-3 3-4 3-20 4-5 4-12 5-6 5-13 7-8 8-9 9-10 10-11 13-23 25-26 25-27 27-28

exact bonds :
13-14 24-25 27-30 30-31 31-38
normalized bonds :
14-15 14-19 15-16 16-17 17-18 18-19

G1:Cy,Ak

G2:H,Ak,C

G3:H,Ak

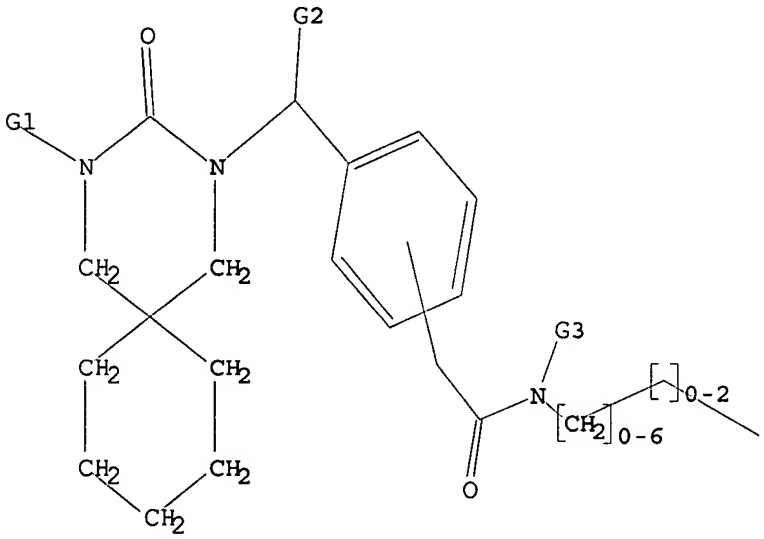
G4:H,F

G5:H,F,OH

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:CLASS 13:CLASS 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom
20:CLASS 23:CLASS 24:CLASS 25:CLASS 26:CLASS 27:CLASS 28:CLASS 30:CLASS
31:CLASS 38:CLASS 39:Atom

L1 STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1 STR



G1 Cy,Ak

G2 H,Ak,C

G3 H,Ak

G4 H,F

G5 H,F,OH

Structure attributes must be viewed using STN Express query preparation.

```
=> s l1
SAMPLE SEARCH INITIATED 16:54:31 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -        1 TO ITERATE

100.0% PROCESSED         1 ITERATIONS                                  0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:            1 TO       80
PROJECTED ANSWERS:               0 TO        0

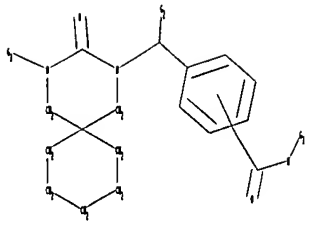
L2             0 SEA SSS SAM L1

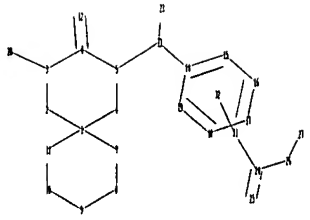
=> s l1 full
FULL SEARCH INITIATED 16:54:35 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -       19 TO ITERATE

100.0% PROCESSED        19 ITERATIONS                                 0 ANSWERS
SEARCH TIME: 00.00.01

L3             0 SEA SSS FUL L1

=>
Uploading C:\Program Files\Stnexp\Queries\10 series\10537187\10537187f.str
```





chain nodes :
12 13 20 23 24 25 26 27 31
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 14 15 16 17 18 19
chain bonds :
3-20 4-12 5-13 13-14 13-23 24-26 24-25 24-31 26-27
ring bonds :
1-2 1-6 1-7 1-11 2-3 3-4 4-5 5-6 7-8 8-9 9-10 10-11 14-15 14-19 15-16
16-17 17-18 18-19
exact/norm bonds :
1-2 1-6 1-7 1-11 2-3 3-4 3-20 4-5 4-12 5-6 5-13 7-8 8-9 9-10 10-11
13-23 24-26 24-25 26-27
exact bonds :
13-14 24-31
normalized bonds :
14-15 14-19 15-16 16-17 17-18 18-19

G1:Cy,Ak

G2:H,Ak,C

G3:H,Ak

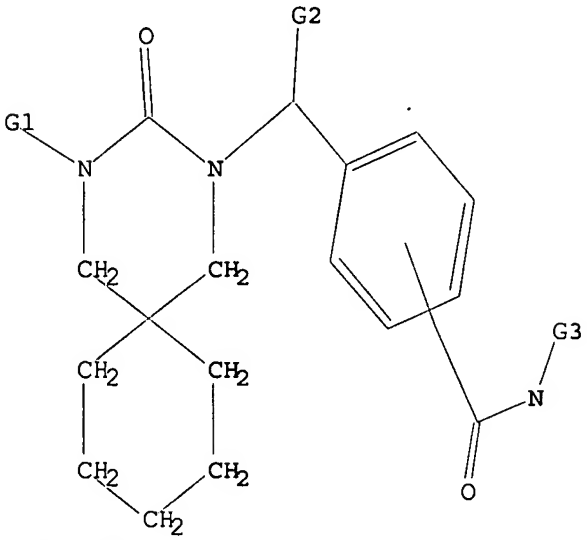
G4:H,F

G5:H,F,OH

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:CLASS 13:CLASS 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom
20:CLASS 23:CLASS 24:CLASS 25:CLASS 26:CLASS 27:CLASS 31:CLASS 32:Atom

L4 STRUCTURE UPLOADED

=> d l4
L4 HAS NO ANSWERS
L4 STR



G1 Cy,Ak

G2 H,Ak,C

G3 H,Ak

G4 H,F

G5 H,F,OH

Structure attributes must be viewed using STN Express query preparation.

=> s l4
SAMPLE SEARCH INITIATED 17:00:16 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 9 TO ITERATE

```
100.0% PROCESSED         9 ITERATIONS                                0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:             9 TO      360
PROJECTED ANSWERS:                0 TO        0

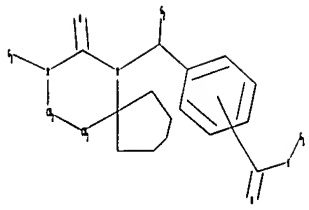
L5             0 SEA SSS SAM L4

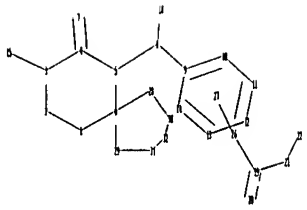
=> s l4 full
FULL SEARCH INITIATED 17:00:20 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -      151 TO ITERATE

100.0% PROCESSED       151 ITERATIONS                               0 ANSWERS
SEARCH TIME: 00.00.01

L6             0 SEA SSS FUL L4

=>
Uploading C:\Program Files\Stnexp\Queries\10 series\10537187\10537187g.str
```





chain nodes :
7 8 15 18 19 20 21 22 26
ring nodes :
1 2 3 4 5 6 9 10 11 12 13 14 28 29 30 31 32
chain bonds :
3-15 4-7 5-8 8-9 8-18 19-21 19-20 19-26 21-22
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 6-28 6-29 9-10 9-14 10-11 11-12 12-13 13-14
28-30 29-31 30-32 31-32
exact/norm bonds :
1-2 1-6 2-3 3-4 3-15 4-5 4-7 5-6 5-8 6-28 6-29 8-18 19-21 19-20 21-22
28-30 29-31 30-32 31-32
exact bonds :
8-9 19-26
normalized bonds :
9-10 9-14 10-11 11-12 12-13 13-14

G1:Cy,Ak

G2:H,Ak,C

G3:H,Ak

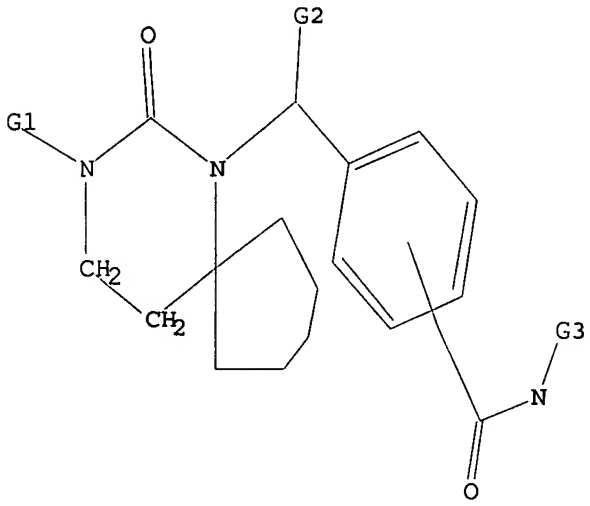
G4:H,F

G5:H,F,OH

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:CLASS 18:CLASS 19:CLASS 20:CLASS
21:CLASS 22:CLASS 26:CLASS 27:Atom 28:Atom 29:Atom 30:Atom 31:Atom 32:Atom

L7 STRUCTURE UPLOADED

=> d l7
L7 HAS NO ANSWERS
L7 STR



G1 Cy,Ak

G2 H,Ak,C

G3 H,Ak

G4 H,F

G5 H,F,OH

Structure attributes must be viewed using STN Express query preparation.

=> s l7
SAMPLE SEARCH INITIATED 17:03:21 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 209 TO ITERATE

```
100.0% PROCESSED      209 ITERATIONS                                  0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:         3313 TO     5047
PROJECTED ANSWERS:               0 TO        0

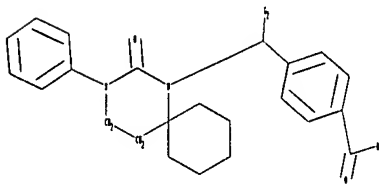
L8             0 SEA SSS SAM L7

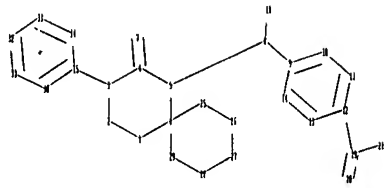
=> s l7 full
FULL SEARCH INITIATED 17:03:25 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -     4405 TO ITERATE

100.0% PROCESSED     4405 ITERATIONS                                  0 ANSWERS
SEARCH TIME: 00.00.01

L9             0 SEA SSS FUL L7

=>
Uploading C:\Program Files\Stnexp\Queries\10 series\10537187\10537187h.str
```





```
chain nodes :
7  8  18  19  20  21
```

```
ring nodes :
1  2  3  4  5  6  9  10  11  12  13  14  15  25  26  27  28  29  30  31  32  33  34

chain bonds :
3-15  4-7  5-8  8-9  8-18  12-19  19-21  19-20
ring bonds :
1-2  1-6  2-3  3-4  4-5  5-6  6-25  6-29  9-10  9-14  10-11  11-12  12-13  13-14
15-30  15-34  25-26  26-27  27-28  28-29  30-31  31-32  32-33  33-34
exact/norm bonds :
1-2  1-6  2-3  3-4  3-15  4-5  4-7  5-6  5-8  6-25  6-29  8-18  19-21  19-20  25-26
 26-27  27-28  28-29
exact bonds :
8-9  12-19
normalized bonds :
9-10  9-14  10-11  11-12  12-13  13-14  15-30  15-34  30-31  31-32  32-33  33-34


G1:Cy,Ak

G2:H,Ak,C

G3:H,Ak

G4:H,F

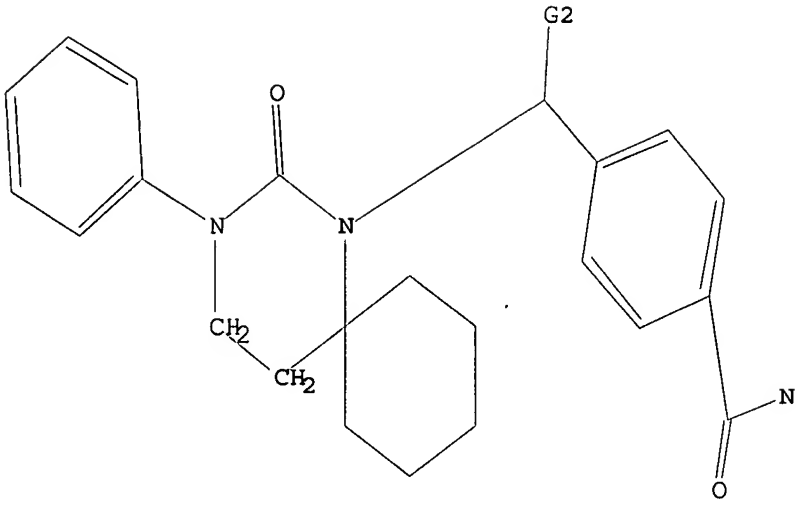
G5:H,F,OH

Match level :
1:Atom  2:Atom  3:Atom  4:Atom  5:Atom  6:Atom  7:CLASS  8:CLASS  9:Atom  10:Atom
11:Atom  12:Atom  13:Atom  14:Atom  15:CLASS  18:CLASS  19:CLASS  20:CLASS
21:CLASS  25:Atom  26:Atom  27:Atom  28:Atom  29:Atom  30:Atom  31:Atom  32:Atom
33:Atom  34:Atom



L10      STRUCTURE UPLOADED

=> d l10
L10 HAS NO ANSWERS
L10              STR
```



G1 Cy,Ak

G2 H,Ak,C

G3 H,Ak

G4 H,F

G5 H,F,OH

Structure attributes must be viewed using STN Express query preparation.

```
=> s l10
SAMPLE SEARCH INITIATED 17:09:38 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -       26 TO ITERATE

100.0% PROCESSED       26 ITERATIONS                                 2 ANSWERS
SEARCH TIME: 00.00.01

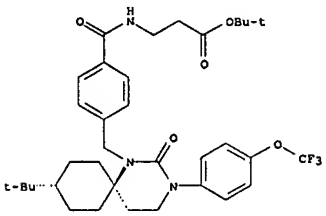
FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:          215 TO      825
PROJECTED ANSWERS:               2 TO      124

L11           2 SEA SSS SAM L10

=> d scan
```

L11 2 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN β-Alanine, N-[4-[[trans-9-(1,1-dimethylethyl)-2-oxo-3-[4-(trifluoromethoxy)phenyl]-1,3-diazaspiro[5.5]undec-1-yl]methyl]benzoyl]-, 1,1-dimethylethyl ester (9CI)
MF C35 H46 F3 N3 O5

Relative stereochemistry.

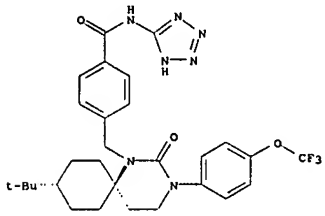


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L11 2 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN Benzamide, 4-[[9-(1,1-dimethylethyl)-2-oxo-3-[4-(trifluoromethoxy)phenyl]-1,3-diazaspiro[5.5]undec-1-yl]methyl]-N-2H-tetrazol-5-yl-
MF C29 H34 F3 N7 O3

Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

```
=> s l10 full
FULL SEARCH INITIATED 17:10:13 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -      395 TO ITERATE

100.0% PROCESSED      395 ITERATIONS                                  8 ANSWERS
SEARCH TIME: 00.00.01

L12           8 SEA SSS FUL L10

=> file caplus
COST IN U.S. DOLLARS                                  SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                     699.20     699.41

FILE 'CAPLUS' ENTERED AT 17:10:19 ON 12 SEP 2007
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FILE LAST UPDATED: 11 Sep 2007  (20070911/ED)

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http://www.cas.org/infopolicy.html

=> s l12
L13           3 L12

=> d l13 1-3 ibib abs hitstr
```

L13 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2007:15632 CAPLUS
DOCUMENT NUMBER: 146:267697
TITLE: Cloning and expression of canine glucagon receptor and its use to evaluate glucagon receptor antagonists in vitro and in vivo
AUTHOR(S): Yang, Xiaodong; Yates, Marla L.; Candelore, Mari R.; Feeney, William; Hora, Don; Kim, Ron M.; Parmee, Emma R.; Berger, Joel P.; Zhang, Bei B.; Qureshi, Sajjad A.
CORPORATE SOURCE: Department of Metabolic Disorder-Molecular Endocrinology, Merck Research Laboratories, Rahway, NJ, 07065, USA
SOURCE: European Journal of Pharmacology (2007), 555(1), 8-16
CODEN: EJPHAZ; ISSN: 0014-2999
PUBLISHER: Elsevier B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English

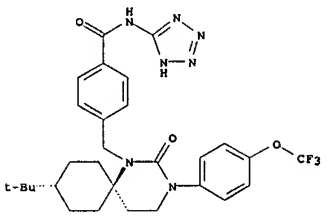
AB Glucose homeostasis is maintained by the combined actions of insulin and glucagon. Hyperglucagonemia and/or elevation of glucagon/insulin ratio have been reported in diabetic patients and in animal models of diabetes. Therefore, antagonizing glucagon receptor function has long been considered a useful approach to lower hyperglycemia. Dogs serve as an excellent model for studying glycemic control and various aspects of glucagon biol. in vivo; however, the amino acid sequence of the dog glucagon receptor has not been reported. To better understand the pharmacol. of the dog glucagon receptor and to characterize glucagon receptor antagonists, we cloned a cDNA corresponding to the glucagon receptor from dog liver RNA. The dog glucagon receptor shares a significant (> 75%) homol. at both nucleotide and amino acid levels with the glucagon receptor from human, monkey, mouse, and rat. The protein is highly conserved among all species in areas corresponding to the 7 trans-membrane domains. However, it shows significant divergence at the carboxy terminus such that the receptor from dog has the longest cytoplasmic tail among all species examined When expressed in chinese hamster ovary cells, the dog glucagon receptor bound [125I]Glucagon with a Kd of 477 ± 106 pM. Glucagon stimulated the rise of intracellular cAMP levels in these cells with an EC50 of 9.6 ± 1.7 nM and such effects could be blocked by known peptidyl and non-peptidyl small mol. antagonists. In addition we show that a small mol. glucagon receptor antagonist with significant activity in cell based assays also blocked the ability of glucagon to induce elevation in blood glucose in beagle dogs. These data demonstrate that the cloned cDNA encodes a functional dog glucagon receptor. The availability of the dog cDNA will facilitate the understanding of glucagon pharmacol. and aid in the characterization of novel glucagon antagonists that may serve as anti-hyperglycemic treatment for type 2 diabetes mellitus.

IT 706812-04-6
RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(glucagon receptor antagonist; cloning, protein and cDNA sequences and expression of canine glucagon receptor and its use to evaluate glucagon receptor antagonists in vitro and in vivo)

RN 706812-04-6 CAPLUS
CN Benzamide, 4-[[9-(1,1-dimethylethyl)-2-oxo-3-[4-(trifluoromethoxy)phenyl]-1,3-diazaspiro[5.5]undec-1-yl]methyl]-N-2H-tetrazol-5-yl- (CA INDEX NAME)

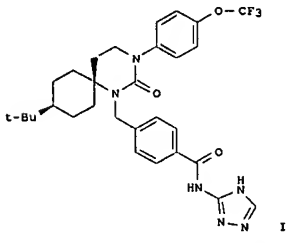
L13 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

Relative stereochemistry.



REFERENCE COUNT: 53 THERE ARE 53 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2005:980867 CAPLUS
DOCUMENT NUMBER: 143:359435
TITLE: Discovery of novel, potent, and orally active spiro-urea human glucagon receptor antagonists
AUTHOR(S): Shen, Dong-Ming; Zhang, Fengqi; Brady, Edward J.; Candelore, Mari Rios; Dallas-Yang, Qing; Ding, Victor D.-H.; Dragovic, Jasminka; Feeney, William P.; Jiang, Guoquiang; McCann, Peggy E.; Mock, Steve; Qureshi, Sajjad A.; Saperstein, Richard; Shen, Xiaolan; Tamvakopoulos, Constantin; Tong, Xinchun; Tota, Laurie M.; Wright, Michael J.; Yang, Xiaodong; Zheng, Song; Chapman, Kevin T.; Zhang, Bei B.; Tata, James R.; Parmee, Emma R.
CORPORATE SOURCE: Department of Basic Chemistry, Merck Research Laboratories, Rahway, NJ, 07065, USA
SOURCE: Bioorganic & Medicinal Chemistry Letters (2005), 15(20), 4564-4569
CODEN: BMCLE8; ISSN: 0960-894X
PUBLISHER: Elsevier B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 143:359435
GI



I

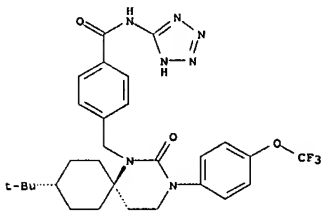
AB A novel class of spiro-ureas has been discovered as potent human glucagon receptor antagonists in both binding and functional assays. Preliminary studies have revealed that compound (I) is an orally active human glucagon receptor antagonist in a transgenic murine pharmacodynamic model at 10 and 30 mpk. Compound I is orally bioavailable in several preclin. species and shows selectivity toward cardiac ion channels and other family B receptors, such as hGIP1 and hGLP.

IT 706812-04-6P 706812-09-1P
RL: PAC (Pharmacological activity); PKT (Pharmacokinetics); SPN (Synthetic

L13 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(discovery of novel, potent, and orally active spiro-urea human glucagon receptor antagonists)

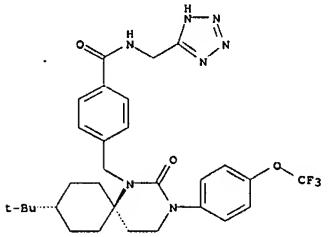
RN 706812-04-6 CAPLUS
CN Benzamide, 4-[[9-(1,1-dimethylethyl)-2-oxo-3-[4-(trifluoromethoxy)phenyl]-1,3-diazaspiro[5.5]undec-1-yl]methyl]-N-2H-tetrazol-5-yl- (CA INDEX NAME)

Relative stereochemistry.



RN 706812-09-1 CAPLUS
CN Benzamide, 4-[[trans-9-(1,1-dimethylethyl)-2-oxo-3-[4-(trifluoromethoxy)phenyl]-1,3-diazaspiro[5.5]undec-1-yl]methyl]-N-(1H-tetrazol-5-ylmethyl)- (9CI) (CA INDEX NAME)

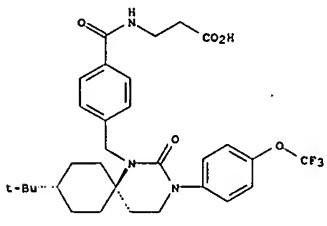
Relative stereochemistry.



IT 706812-06-8P 706812-08-0P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(discovery of novel, potent, and orally active spiro-urea human

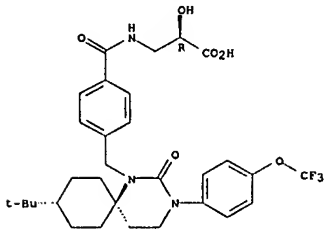
L13 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
glucagon receptor antagonists)
RN 706812-06-8 CAPLUS
CN β-Alanine, N-[4-[[trans-9-(1,1-dimethylethyl)-2-oxo-3-[4-(trifluoromethoxy)phenyl]-1,3-diazaspiro[5.5]undec-1-yl]methyl]benzoyl]-(9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 706812-08-0 CAPLUS
CN Propanoic acid, 3-[[4-[[trans-9-(1,1-dimethylethyl)-2-oxo-3-[4-(trifluoromethoxy)phenyl]-1,3-diazaspiro[5.5]undec-1-yl]methyl]benzoyl]amino]-2-hydroxy-, (2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2004:490706 CAPLUS
DOCUMENT NUMBER: 141:54338
TITLE: Preparation of spirocyclic ureas as glucagon receptor antagonists for the treatment of type 2 diabetes mellitus
INVENTOR(S): Parmee, Emma R.; Zhang, Fengqi; Shen, Dong-Ming; Stelmach, John
PATENT ASSIGNEE(S): Merck & Co., Inc., USA
SOURCE: PCT Int. Appl., 99 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004050039	A2	20040617	WO 2003-US38590	20031126
WO 2004050039	A3	20040729		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2508581	A1	20040617	CA 2003-2508581	20031126
AU 2003298889	A1	20040623	AU 2003-298889	20031126
EP 1569915	A2	20050907	EP 2003-796648	20031126
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
JP 2006509015	T	20060316	JP 2004-557589	20031126
US 2006116366	A1	20060601	US 2005-537187	20050602
PRIORITY APPLN. INFO.:			US 2002-430799P	P 20021204
			WO 2003-US38590	W 20031126

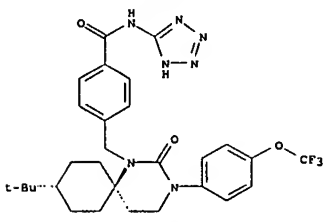
OTHER SOURCE(S): MARPAT 141:54338
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The title compds. I [X = CH2 and C(O); R1 = (substituted)alkyl, (substituted)(hetero)aryl; R2 = H, or alkyl; R3 = H, or F; R4 = H, F, or OH; or R3, R4 = oxo; R5 = H, CO2R6, alkyl optionally substituted with OH, O-alkyl, CO2R6, halo; R6 = H, (substituted)alkyl; Y = (substituted)4-8 membered spirocarbocyclic ring or a spiroheterocyclic ring containing up to 3 heteroatoms, selected from O, S, N; p, q = 0 or 1 with proviso that the sum of p and q is 0 or 1] were prepared as glucagon receptor antagonists for the treatment of type 2 diabetes mellitus. For example, compound II was prepared in a multi-step synthesis starting from 4-tert-butylcyclohexanone.

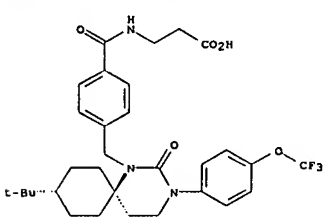
L13 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
IT 706812-04-6P 706812-06-8P 706812-07-9P
706812-08-0P 706812-09-1P 706813-52-7P
706813-57-2P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of spirocyclic ureas as glucagon receptor antagonists)
RN 706812-04-6 CAPLUS
CN Benzamide, 4-[[9-(1,1-dimethylethyl)-2-oxo-3-[4-(trifluoromethoxy)phenyl]-1,3-diazaspiro[5.5]undec-1-yl]methyl]-N-2H-tetrazol-5-yl- (CA INDEX NAME)

Relative stereochemistry.



RN 706812-06-8 CAPLUS
CN β-Alanine, N-[4-[[trans-9-(1,1-dimethylethyl)-2-oxo-3-[4-(trifluoromethoxy)phenyl]-1,3-diazaspiro[5.5]undec-1-yl]methyl]benzoyl]-(9CI) (CA INDEX NAME)

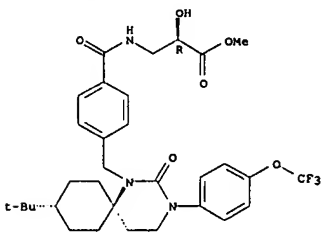
Relative stereochemistry.



RN 706812-07-9 CAPLUS
CN Propanoic acid, 3-[[4-[[trans-9-(1,1-dimethylethyl)-2-oxo-3-[4-(trifluoromethoxy)phenyl]-1,3-diazaspiro[5.5]undec-1-yl]methyl]benzoyl]amino]-2-hydroxy-, methyl ester, (2R)- (9CI) (CA INDEX

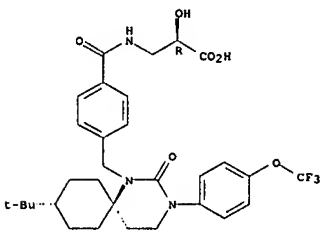
L13 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
NAME)

Absolute stereochemistry.



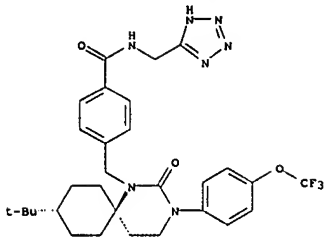
RN 706812-08-0 CAPLUS
CN Propanoic acid, 3-[[4-[[trans-9-(1,1-dimethylethyl)-2-oxo-3-[4-(trifluoromethoxy)phenyl]-1,3-diazaspiro[5.5]undec-1-yl]methyl]benzoyl]amino]-2-hydroxy-, (2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



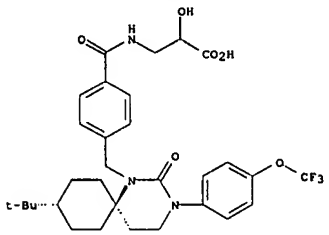
RN 706812-09-1 CAPLUS
CN Benzamide, 4-[[trans-9-(1,1-dimethylethyl)-2-oxo-3-[4-(trifluoromethoxy)phenyl]-1,3-diazaspiro[5.5]undec-1-yl]methyl]-N-(1H-tetrazol-5-ylmethyl)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



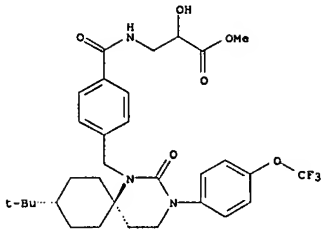
RN 706813-52-7 CAPLUS
CN Propanoic acid, 3-[[4-[[trans-9-(1,1-dimethylethyl)-2-oxo-3-[4-(trifluoromethoxy)phenyl]-1,3-diazaspiro[5.5]undec-1-yl]methyl]benzoyl]amino]-2-hydroxy- (9CI) (CA INDEX NAME)

Relative stereochemistry.



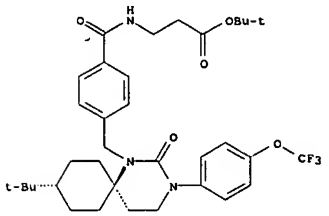
RN 706813-57-2 CAPLUS
CN Propanoic acid, 3-[[4-[[trans-9-(1,1-dimethylethyl)-2-oxo-3-[4-(trifluoromethoxy)phenyl]-1,3-diazaspiro[5.5]undec-1-yl]methyl]benzoyl]amino]-2-hydroxy-, methyl ester (9CI) (CA INDEX NAME)

Relative stereochemistry.



IT 706813-30-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of spirocyclic ureas as glucagon receptor antagonists)
RN 706813-30-1 CAPLUS
CN β-Alanine, N-[4-[[trans-9-(1,1-dimethylethyl)-2-oxo-3-[4-(trifluoromethoxy)phenyl]-1,3-diazaspiro[5.5]undec-1-yl]methyl]benzoyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Relative stereochemistry.



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COST IN U.S. DOLLARS                                    SINCE FILE      TOTAL
                                                          ENTRY    SESSION
FULL ESTIMATED COST                                       20.04     719.45

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)              SINCE FILE      TOTAL
                                                          ENTRY    SESSION
CA SUBSCRIBER PRICE                                       -2.34      -2.34

STN INTERNATIONAL LOGOFF AT 17:15:39 ON 12 SEP 2007


Connecting via Winsock to STN



Welcome to STN International!  Enter x:x

LOGINID:SSPTAJHM1624

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2


* * * * * * * * * *   Welcome to STN International   * * * * * * * * * *

 NEWS  1          Web Page for STN Seminar Schedule - N. America
 NEWS  2  MAY 01  New CAS web site launched
 NEWS  3  MAY 08  CA/CAplus Indian patent publication number format defined
 NEWS  4  MAY 14  RDISCLOSURE on STN Easy enhanced with new search and display
                  fields
 NEWS  5  MAY 21  BIOSIS reloaded and enhanced with archival data
 NEWS  6  MAY 21  TOXCENTER enhanced with BIOSIS reload
 NEWS  7  MAY 21  CA/CAplus enhanced with additional kind codes for German
                  patents
 NEWS  8  MAY 22  CA/CAplus enhanced with IPC reclassification in Japanese
                  patents
 NEWS  9  JUN 27  CA/CAplus enhanced with pre-1967 CAS Registry Numbers
 NEWS 10  JUN 29  STN Viewer now available
 NEWS 11  JUN 29  STN Express, Version 8.2, now available
 NEWS 12  JUL 02  LEMBASE coverage updated
 NEWS 13  JUL 02  LMEDLINE coverage updated
 NEWS 14  JUL 02  SCISEARCH enhanced with complete author names
 NEWS 15  JUL 02  CHEMCATS accession numbers revised
 NEWS 16  JUL 02  CA/CAplus enhanced with utility model patents from China
 NEWS 17  JUL 16  CAplus enhanced with French and German abstracts
 NEWS 18  JUL 18  CA/CAplus patent coverage enhanced
 NEWS 19  JUL 26  USPATFULL/USPAT2 enhanced with IPC reclassification
 NEWS 20  JUL 30  USGENE now available on STN
 NEWS 21  AUG 06  CAS REGISTRY enhanced with new experimental property tags
 NEWS 22  AUG 06  BEILSTEIN updated with new compounds
 NEWS 23  AUG 06  FSTA enhanced with new thesaurus edition
 NEWS 24  AUG 13  CA/CAplus enhanced with additional kind codes for granted
                  patents
 NEWS 25  AUG 20  CA/CAplus enhanced with CAS indexing in pre-1907 records
 NEWS 26  AUG 27  Full-text patent databases enhanced with predefined
                  patent family display formats from INPADOCDB
 NEWS 27  AUG 27  USPATOLD now available on STN
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NEWS 28 AUG 28 CAS REGISTRY enhanced with additional experimental spectral property data

NEWS 29 SEP 07 STN AnaVist, Version 2.0, now available with Derwent World Patents Index

NEWS EXPRESS 05 SEPTEMBER 2007: CURRENT WINDOWS VERSION IS V8.2, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 05 SEPTEMBER 2007.

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NEWS LOGIN Welcome Banner and News Items
NEWS IPC8 For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that specific topic.

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* * * * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 17:50:43 ON 12 SEP 2007

=>
Uploading
THIS COMMAND NOT AVAILABLE IN THE CURRENT FILE
Do you want to switch to the Registry File?
Choice (Y/n):
Switching to the Registry File...
Some commands only work in certain files. For example, the EXPAND command can only be used to look at the index in a file which has an index. Enter "HELP COMMANDS" at an arrow prompt (=>) for a list of commands which can be used in this file.

=> FILE REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 17:51:05 ON 12 SEP 2007
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 11 SEP 2007 HIGHEST RN 946658-01-1
DICTIONARY FILE UPDATES: 11 SEP 2007 HIGHEST RN 946658-01-1

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TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

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REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

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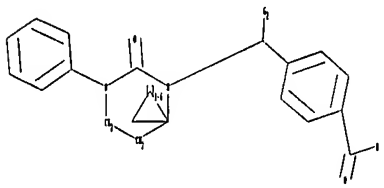
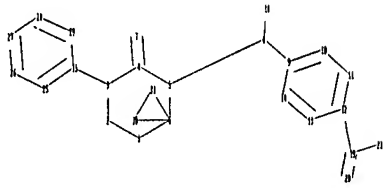




chain nodes :
7 8 18 19 20 21
ring nodes :
1 2 3 4 5 6 9 10 11 12 13 14 15 25 26 27 28 29 30 31
chain bonds :
3-15 4-7 5-8 8-9 8-18 12-19 19-21 19-20
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 6-30 6-31 9-10 9-14 10-11 11-12 12-13 13-14
15-25 15-29 25-26 26-27 27-28 28-29 30-31
exact/norm bonds :
1-2 1-6 2-3 3-4 3-15 4-5 4-7 5-6 5-8 6-30 6-31 8-18 19-21 19-20 30-31

exact bonds :
8-9 12-19
normalized bonds :
9-10 9-14 10-11 11-12 12-13 13-14 15-25 15-29 25-26 26-27 27-28 28-29

G1:Cy,Ak

G2:H,Ak,C

G3:H,Ak

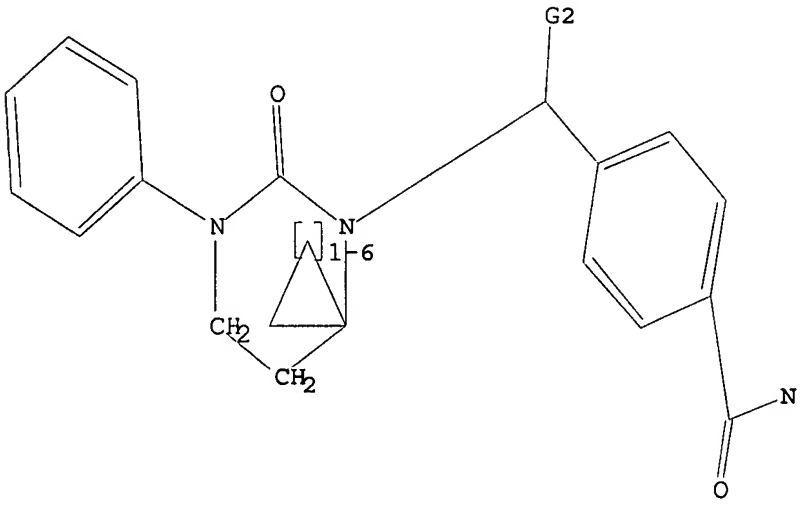
G4:H,F

G5:H,F,OH

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:CLASS 18:CLASS 19:CLASS 20:CLASS
21:CLASS 25:Atom 26:Atom 27:Atom 28:Atom 29:Atom 30:Atom 31:Atom

L1 STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1 STR



G1 Cy,Ak
G2 H,Ak,C
G3 H,Ak
G4 H,F
G5 H,F,OH

Structure attributes must be viewed using STN Express query preparation.

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=> s l1
SAMPLE SEARCH INITIATED 17:51:23 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -       26 TO ITERATE

100.0% PROCESSED       26 ITERATIONS                                2 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:          215 TO      825
PROJECTED ANSWERS:               2 TO      124

L2             2 SEA SSS SAM L1

=> d scan
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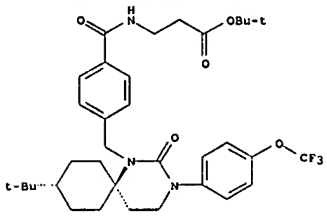
L2 2 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN β-Alanine, N-[4-[[trans-9-(1,1-dimethylethyl)-2-oxo-3-[4-(trifluoromethoxy)phenyl]-1,3-diazaspiro[5.5]undec-1-yl]methyl]benzoyl]-, 1,1-dimethylethyl ester (9CI)
MF C35 H46 F3 N3 O5

Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

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=> s l1 full
FULL SEARCH INITIATED 17:51:40 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -      395 TO ITERATE

100.0% PROCESSED      395 ITERATIONS                                  8 ANSWERS
SEARCH TIME: 00.00.01

L3             8 SEA SSS FUL L1

=> file caplus
COST IN U.S. DOLLARS                                  SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                     172.10     172.31

FILE 'CAPLUS' ENTERED AT 17:51:49 ON 12 SEP 2007
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FILE LAST UPDATED: 11 Sep 2007  (20070911/ED)

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=> s l3
L4             3 L3

=> log hold
COST IN U.S. DOLLARS                                  SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                       0.47     172.78

 SESSION WILL BE HELD FOR 120 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 17:51:56 ON 12 SEP 2007

Connecting via Winsock to STN



Welcome to STN International!  Enter x:x

LOGINID:SSPTAJHM1624

PASSWORD:
 * * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
```

SESSION RESUMED IN FILE 'CAPLUS' AT 19:21:28 ON 12 SEP 2007
FILE 'CAPLUS' ENTERED AT 19:21:28 ON 12 SEP 2007

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.47	172.78

=> file registry

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.47	172.78

FILE 'REGISTRY' ENTERED AT 19:21:40 ON 12 SEP 2007

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 11 SEP 2007 HIGHEST RN 946658-01-1
DICTIONARY FILE UPDATES: 11 SEP 2007 HIGHEST RN 946658-01-1

New CAS Information Use Policies, enter HELP USAGETERMS for details.

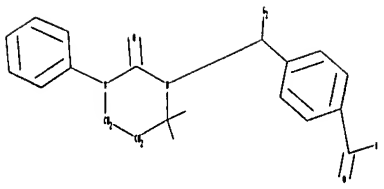
TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

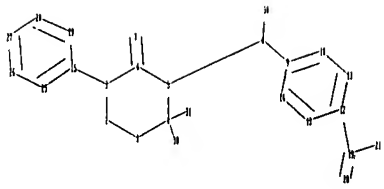
Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=>
Uploading C:\Program Files\Stnexp\Queries\10 series\10537187\10537187k.str





chain nodes :
7 8 18 19 20 21 30 31
ring nodes :
1 2 3 4 5 6 9 10 11 12 13 14 15 25 26 27 28 29
chain bonds :
3-15 4-7 5-8 6-30 6-31 8-9 8-18 12-19 19-21 19-20
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 9-10 9-14 10-11 11-12 12-13 13-14 15-25 15-29
25-26 26-27 27-28 28-29
exact/norm bonds :
1-2 1-6 2-3 3-4 3-15 4-5 4-7 5-6 5-8 8-18 19-21 19-20
exact bonds :
6-30 6-31 8-9 12-19
normalized bonds :
9-10 9-14 10-11 11-12 12-13 13-14 15-25 15-29 25-26 26-27 27-28 28-29

G1:Cy,Ak

G2:H,Ak,C

G3:H,Ak

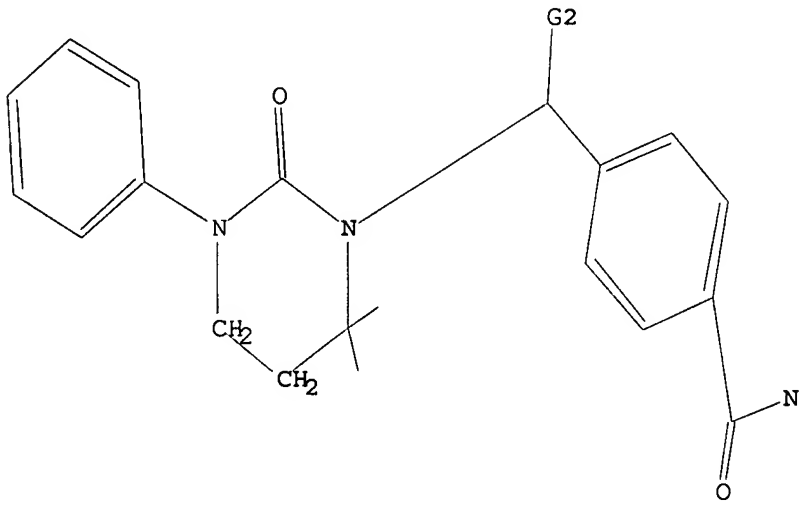
G4:H,F

G5:H,F,OH

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:CLASS 18:CLASS 19:CLASS 20:CLASS
21:CLASS 25:Atom 26:Atom 27:Atom 28:Atom 29:Atom 30:CLASS 31:CLASS

L5 STRUCTURE UPLOADED

=> d l5
L5 HAS NO ANSWERS
L5 STR



G1 Cy,Ak

G2 H,Ak,C

G3 H,Ak

G4 H,F

G5 H,F,OH

Structure attributes must be viewed using STN Express query preparation.

=> s l5
SAMPLE SEARCH INITIATED 19:22:00 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 2 TO ITERATE

100.0% PROCESSED 2 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 2 TO 124
PROJECTED ANSWERS: 0 TO 0

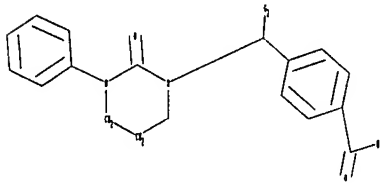
```
L6             0 SEA SSS SAM L5

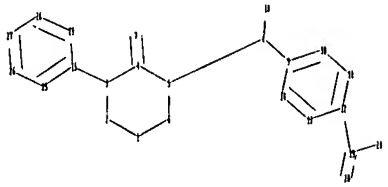
=> s l5 full
FULL SEARCH INITIATED 19:22:04 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -       13 TO ITERATE

100.0% PROCESSED       13 ITERATIONS                                  0 ANSWERS
SEARCH TIME: 00.00.01

L7             0 SEA SSS FUL L5

=>
Uploading C:\Program Files\Stnexp\Queries\10 series\10537187\105371871.str
```





```
chain nodes :
7  8  18  19  20  21
ring nodes :
1  2  3  4  5  6  9  10  11  12  13  14  15  25  26  27  28  29
chain bonds :
3-15  4-7  5-8  8-9  8-18  12-19  19-21  19-20
ring bonds :
1-2  1-6  2-3  3-4  4-5  5-6  9-10  9-14  10-11  11-12  12-13  13-14  15-25  15-29
25-26  26-27  27-28  28-29
```

exact/norm bonds :
1-2 1-6 2-3 3-4 3-15 4-5 4-7 5-6 5-8 8-18 19-21 19-20
exact bonds :
8-9 12-19
normalized bonds :
9-10 9-14 10-11 11-12 12-13 13-14 15-25 15-29 25-26 26-27 27-28 28-29

G1:Cy,Ak

G2:H,Ak,C

G3:H,Ak

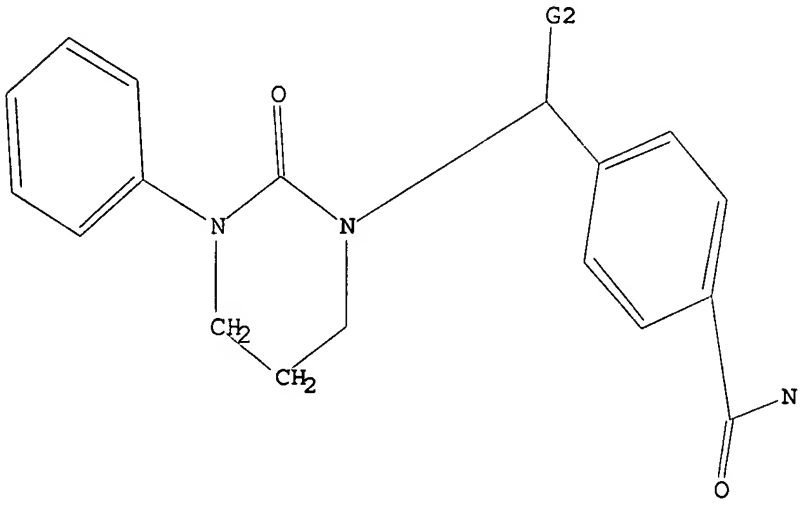
G4:H,F

G5:H,F,OH

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:CLASS 18:CLASS 19:CLASS 20:CLASS
21:CLASS 25:Atom 26:Atom 27:Atom 28:Atom 29:Atom

L8 STRUCTURE UPLOADED

=> d l8
L8 HAS NO ANSWERS
L8 STR



G1 Cy,Ak

G2 H,Ak,C

G3 H,Ak

G4 H,F

G5 H,F,OH

```
Structure attributes must be viewed using STN Express query preparation.


=> s l8
SAMPLE SEARCH INITIATED 19:23:24 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -      166 TO ITERATE

100.0% PROCESSED      166 ITERATIONS                                  2 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:         2547 TO     4093
PROJECTED ANSWERS:               2 TO      124

L9             2 SEA SSS SAM L8

=> s l8 full
FULL SEARCH INITIATED 19:23:30 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -     3942 TO ITERATE

100.0% PROCESSED     3942 ITERATIONS                                  8 ANSWERS
SEARCH TIME: 00.00.01

L10            8 SEA SSS FUL L8

=> s spiro
        466254 SPIRO
             1 SPIROS
L11     466254 SPIRO
                 (SPIRO OR SPIROS)

=> s tetrahydropyrimidinone
L12            2 TETRAHYDROPYRIMIDINONE

=> s l11 and cyclourea
               0 CYCLOUREA
L13            0 L11 AND CYCLOUREA

=> s cyclourea
               0 CYCLOUREA
L14            0 CYCLOUREA

=> cpyrimidinone
CPYRIMIDINONE IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).

=> s pyrimidinone
L15       58040 PYRIMIDINONE

=> s l15 and l11
L16         101 L15 AND L11

=> s phenyl
      15214589 PHENYL
            14 PHENYLS
SYSTEM LIMITS EXCEEDED - SEARCH ENDED
The search profile you entered was too complex or gave too many
```

answers. Simplify or subdivide the query and try again. If you have exceeded the answer limit, enter DELETE HISTORY at an arrow prompt (=>) to remove all previous answers sets and begin at L1. Use the SAVE command to store any important profiles or answer sets before using DELETE HISTORY.

```
=> s benzyl and l16
        314698 BENZYL
             9 BENZYLS
        314698 BENZYL
                  (BENZYL OR BENZYLS)
L17          0 BENZYL AND L16

=> s phenyl and l16
      15214589 PHENYL
            14 PHENYLS
      15214589 PHENYL
                  (PHENYL OR PHENYLS)
L18          18 PHENYL AND L16

=> d l18 ibib abs hitstr
'IBIB' IS NOT A VALID FORMAT FOR FILE 'REGISTRY'
'ABS' IS NOT A VALID FORMAT FOR FILE 'REGISTRY'
'HITSTR' IS NOT A VALID FORMAT FOR FILE 'REGISTRY'

The following are valid formats:

Substance information can be displayed by requesting individual
fields or predefined formats.  The predefined substance formats
are:  (RN = CAS Registry Number)

REG     - RN
SAM     - Index Name, MF, and structure - no RN
FIDE    - All substance data, except sequence data
IDE     - FIDE, but only 50 names
SQIDE   - IDE, plus sequence data
SQIDE3  - Same as SQIDE, but 3-letter amino acid codes are used
SQD     - Protein sequence data, includes RN
SQD3    - Same as SQD, but 3-letter amino acid codes are used
SQN     - Protein sequence name information, includes RN

CALC    - Table of calculated properties
EPROP   - Table of experimental properties
PROP    - EPROP and CALC

Any CA File format may be combined with any substance format to
obtain CA references citing the substance.  The substance formats
must be cited first.  The CA File predefined formats are:

ABS  -- Abstract
APPS -- Application and Priority Information
BIB  -- CA Accession Number, plus Bibliographic Data
CAN  -- CA Accession Number
CBIB -- CA Accession Number, plus Bibliographic Data (compressed)
IND  -- Index Data
IPC  -- International Patent Classification
PATS -- PI, SO
STD  -- BIB, IPC, and NCL

IABS -- ABS, indented, with text labels
```

IBIB -- BIB, indented, with text labels
ISTD -- STD format, indented

OBIB -------- AN, plus Bibliographic Data (original)
OIBIB ------- OBIB, indented with text labels

SBIB -------- BIB, no citations
SIBIB ------- IBIB, no citations

The ALL format gives FIDE BIB ABS IND RE, plus sequence data when it is available.
The MAX format is the same as ALL.
The IALL format is the same as ALL with BIB ABS and IND indented, with text labels.

For additional information, please consult the following help messages:

HELP DFIELDS -- To see a complete list of individual display fields.
HELP FORMATS -- To see detailed descriptions of the predefined formats.
ENTER DISPLAY FORMAT (IDE):
ENTER DISPLAY FORMAT (IDE):ibib
'IBIB' IS NOT A VALID FORMAT FOR FILE 'REGISTRY'

The following are valid formats:

Substance information can be displayed by requesting individual fields or predefined formats. The predefined substance formats are: (RN = CAS Registry Number)

REG - RN
SAM - Index Name, MF, and structure - no RN
FIDE - All substance data, except sequence data
IDE - FIDE, but only 50 names
SQIDE - IDE, plus sequence data
SQIDE3 - Same as SQIDE, but 3-letter amino acid codes are used
SQD - Protein sequence data, includes RN
SQD3 - Same as SQD, but 3-letter amino acid codes are used
SQN - Protein sequence name information, includes RN

CALC - Table of calculated properties
EPROP - Table of experimental properties
PROP - EPROP and CALC

Any CA File format may be combined with any substance format to obtain CA references citing the substance. The substance formats must be cited first. The CA File predefined formats are:

ABS -- Abstract
APPS -- Application and Priority Information
BIB -- CA Accession Number, plus Bibliographic Data
CAN -- CA Accession Number
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IND -- Index Data
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PATS -- PI, SO
STD -- BIB, IPC, and NCL

IABS -- ABS, indented, with text labels
IBIB -- BIB, indented, with text labels

```
ISTD -- STD format, indented

OBIB -------- AN, plus Bibliographic Data (original)
OIBIB ------- OBIB, indented with text labels

SBIB -------- BIB, no citations
SIBIB ------- IBIB, no citations

The ALL format gives FIDE BIB ABS IND RE, plus sequence data when
it is available.
The MAX format is the same as ALL.
The IALL format is the same as ALL with BIB ABS and IND indented,
with text labels.

For additional information, please consult the following help
messages:

HELP DFIELDS -- To see a complete list of individual display fields.
HELP FORMATS -- To see detailed descriptions of the predefined formats.
ENTER DISPLAY FORMAT (IDE):reg
1         RN             882004-27-5  REGISTRY


=> file caplus
COST IN U.S. DOLLARS                              SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                   382.22     555.00

FILE 'CAPLUS' ENTERED AT 19:26:50 ON 12 SEP 2007
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PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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FILE COVERS 1907 - 12 Sep 2007  VOL 147 ISS 12
FILE LAST UPDATED: 11 Sep 2007  (20070911/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply.
They are available for your review at:

http://www.cas.org/infopolicy.html

=> s l18
L19          15 L18

=> d l19 15-19 ibib abs hitstr
```

L19 ANSWER 15 OF 15 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1987:642617 CAPLUS
DOCUMENT NUMBER: 107:242617
TITLE: Synergistic coccidiostats containing narasin or salinomycin for use with poultry
PATENT ASSIGNEE(S): Hoechst A.-G. , Fed. Rep. Ger.
SOURCE: Belg., 30 pp.
CODEN: BEXXAL
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
BE 905758	A1	19870514	BE 1986-217412	19861114
DE 3616279	A1	19871119	DE 1986-3616279	19860514
CA 1294216	C	19920114	CA 1986-520202	19861009
EP 246532	A1	19871125	EP 1987-106831	19870512
EP 246532	B1	19920701		
R: AT, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
AT 77749	T	19920715	AT 1987-106831	19870512
ES 2051706	T3	19940701	ES 1987-106831	19870512

PRIORITY APPLN. INFO.: DE 1986-3616279 A 19860514
EP 1987-106831 A 19870512

AB Coccidiostats for use with poultry contain a polyether antibiotic salinomycin or narasin, in combination with ≥ 1 of meticlorpindol, Me benzoquate, nicarbazin, amprolium, beclotiamine, or halofuginone. Week-old chickens were infected overall with Eimeria tenelle, and given food containing drugs from 1 day previous to infection to 5 days after infection, at which point they were evaluated. At 30 and 62.5 ppm resp., Na salinomycin and amprolium-ethopabate (25:1.6) led to no damage due to coccidiosis, whereas chicks given food treated with Na salinomycin 30 ppm or amprolium-ethopabate (25:1.6) 62.5 ppm showed moderate and some damage resp.

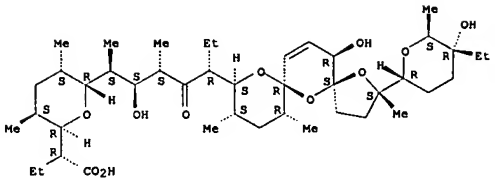
IT 111447-00-8 111484-36-7
RL: BIOL (Biological study)
(coccidiostat, for poultry)

RN 111447-00-8 CAPLUS
CN Salinomycin, 4-methyl-, (4S)-, mixt. with N,N'-bis(4-nitrophenyl)urea compd. with 4,6-dimethyl-2(1H)-pyrimidinone (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 55134-13-9
CMF C43 H72 O11

Absolute stereochemistry.

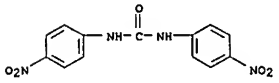


CM 2

CRN 330-95-0
CMF C13 H10 N4 O5 . C6 H8 N2 O

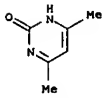
CM 3

CRN 587-90-6
CMF C13 H10 N4 O5



CM 4

CRN 108-79-2
CMF C6 H8 N2 O



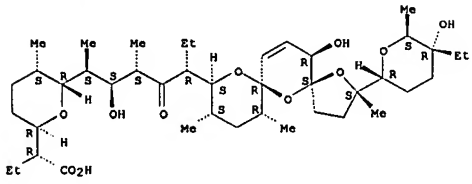
RN 111484-36-7 CAPLUS
CN Salinomycin, monosodium salt, mixt. with 4,6-dimethyl-2(1H)-pyrimidinone compd. with N,N'-bis(4-nitrophenyl)urea (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 55721-31-8
CMF C42 H70 O11 . Na

L19 ANSWER 15 OF 15 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

Absolute stereochemistry.



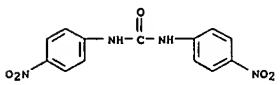
● Na

CM 2

CRN 330-95-0
CMF C13 H10 N4 O5 . C6 H8 N2 O

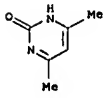
CM 3

CRN 587-90-6
CMF C13 H10 N4 O5



CM 4

CRN 108-79-2
CMF C6 H8 N2 O



L19 ANSWER 15 OF 15 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

=> d l19 10-14 ibib abs hitstr

L19 ANSWER 10 OF 15 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1994:253371 CAPLUS
DOCUMENT NUMBER: 120:253371
TITLE: Anticoccidial combinations comprising nicarbazin and semduramicin
INVENTOR(S): Shively, Jesse E.
PATENT ASSIGNEE(S): Pfizer Inc., USA
SOURCE: U.S., 4 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5283249	A	19940201	US 1992-986178	19921207
PRIORITY APPLN. INFO.:			US 1992-986178	19921207

AB Anticoccidial agents which contain the polyether antibiotic semduramicin (I) and nicarbazin (II) show synergistic effects in poultry. Broiler chickens infected with Eimeria tenella were fed with combination of I at 20ppm and II at 40 ppm mixed with feed. The anticoccidial combination was highly effective for improving gains and reducing lesion scores from that of chicks receiving the subefficacious levels of individual drugs alone.

IT 154598-81-9, Nicarbazin-semduramicin mixture
RL: BIOL (Biological study)
(anticoccidial combination containing, synergistic)

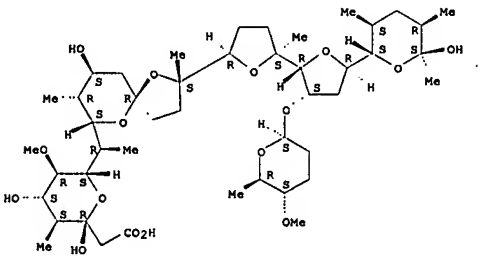
RN 154598-81-9 CAPLUS

CN Semduramicin, mixt. with N,N'-bis(4-nitrophenyl)urea and 4,6-dimethyl-2(1H)-pyrimidinone (9CI) (CA INDEX NAME)

CM 1

CRN 113378-31-7
CMF C45 H76 O16

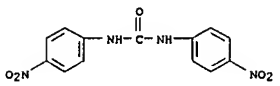
Absolute stereochemistry.



L19 ANSWER 10 OF 15 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

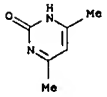
CM 2

CRN 587-90-6
CMF C13 H10 N4 O5



CM 3

CRN 108-79-2
CMF C6 H8 N2 O

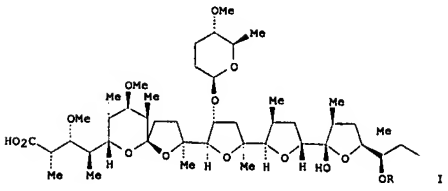


L19 ANSWER 11 OF 15 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1990:513844 CAPLUS
DOCUMENT NUMBER: 113:113844
TITLE: Polyether antibiotic A82810, derivs. thereof, and their preparation and use
INVENTOR(S): Hamill, Robert L.; Yao, Raymond Che Fong
PATENT ASSIGNEE(S): Eli Lilly and Co., USA
SOURCE: Eur. Pat. Appl., 50 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 341019	A2	19891108	EP 1989-304398	19890502
EP 341019	A3	19900404		
EP 341019	B1	19930113		
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
US 5098834	A	19920324	US 1989-335332	19890410
SU 1825377	A3	19930630	SU 1989-4613956	19890428
AU 8933916	A	19891102	AU 1989-33916	19890501
AU 625818	B2	19920716		
DK 8902112	A	19891102	DK 1989-2112	19890501
FI 8902077	A	19891103	FI 1989-2077	19890502
CN 1038838	A	19900117	CN 1989-104280	19890502
JP 02015085	A	19900118	JP 1989-113534	19890502
ZA 8903234	A	19910130	ZA 1989-3234	19890502
HU 54418	A2	19910228	HU 1989-2064	19890502
HU 204893	B	19920228		
AT 84535	T	19930115	AT 1989-304398	19890502
US 5314875	A	19940524	US 1991-752816	19910830
US 5552386	A	19960903	US 1993-42343	19930402
PRIORITY APPLN. INFO.:			US 1988-189499 A	19880502
			US 1989-335332 A3	19890410
			EP 1989-304398 A	19890502
			US 1991-752816 A3	19910830

OTHER SOURCE(S): CASREACT 113:113844; MARPAT 113:113844
GI

L19 ANSWER 11 OF 15 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



I

AB Polyether antibiotic A82810 (I, R = H) is manufactured by Actinomadura fibrosa NRRL 18348 and urethane derivs. (R = CONHR1; R1 = alkyl, aryl, alkaryl, aralkyl or substituted derivs.) prepared chemical Sensitivity testing showed I to be effective against anaerobes and in the treatment of coccidiosis. Testing in vivo (chicken) showed that I is synergistic with other coccidiostats. Lesion score in control animals infected with Eimeria acervulina 59 and E. tenella 155 (ionophore resistant) was 10.1. The coccidiostat 2,4-dinitro-N-[4-(1,1,2,2-tetrafluoroethoxy)phenyl]-6-(trifluoromethyl)benzeneamine (II) in the range 0-16 ppm was ineffective. Antibiotic 82810 reduced the lesion score to 5.4. Antibiotic 82810 2 and II 16 ppm reduced the lesion score to 0.5. Weight gain of untreated animals was 67% of control animals. Treatment with the mixture described resulted in a weight gain of 97% of uninfected controls. Feed formulations are also described.

IT 129100-27-2
RL: BIOL (Biological study)
(coccidiostat, synergistic)

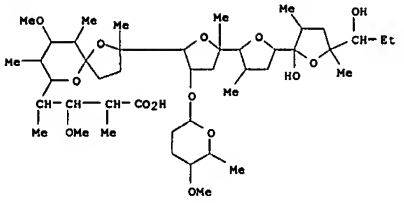
RN 129100-27-2 CAPLUS

CN Monensin, 21,25-deepoxy-25-de(hydroxymethyl)-21,24-epoxy-25-ethyl-21-hydroxy-8-methyl-7-O-methyl-14-[(tetrahydro-5-methoxy-6-methyl-2H-pyran-2-yl)oxy]-, [8R,14R(2S,5S,6R),21S,24S,25R]-, mixt. with N,N'-bis(4-nitrophenyl)urea compd. with 4,6-dimethyl-2(1H)-pyrimidinone (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 127759-24-4
CMF C45 H78 O14

L19 ANSWER 11 OF 15 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

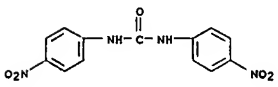


CM 2

CRN 330-95-0
CMF C13 H10 N4 O5 . C6 H8 N2 O

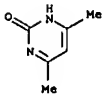
CM 3

CRN 587-90-6
CMF C13 H10 N4 O5



CM 4

CRN 108-79-2
CMF C6 H8 N2 O



L19 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1990:30266 CAPLUS
DOCUMENT NUMBER: 112:30266
TITLE: Field isolates of E. tenella: sensitivity to diclazuril, maduramicin, narasin, salinomycin and a mixture of nicarbazin/narasin
AUTHOR(S): Chapman, H. D.
CORPORATE SOURCE: Houghton Lab., Inst. Anim. Health, Houghton/Huntingdon/Cambs., PE17 2DA, UK
SOURCE: Colloques - Institut National de la Recherche Agronomique (1989), 49(Coccidia Intest. Coccidiomorphs), 323-6
CODEN: COLIEZ; ISSN: 0293-1915
DOCUMENT TYPE: Journal
LANGUAGE: English

AB The sensitivity of field isolates of Eimeria tenella from chickens to diclazuril, maduramicin, narasin, salinomycin and a mixture of nicarbazin and narasin was investigated. The isolates were resistant to narasin and salinomycin. The majority of isolates were also resistant to maduramicin.
Only 3 isolates were fully resistant to the nicarbazin/narasin mixture Diclazuril was the most effective antibiotic.

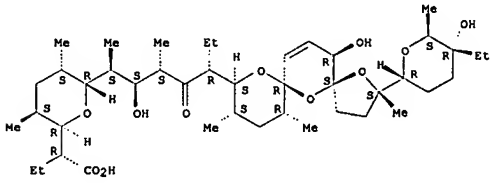
IT 122412-18-4
RL: BIOL (Biological study)
(Eimeria tenella isolates sensitivity to, in chickens)

RN 122412-18-4 CAPLUS
CN Salinomycin, 4-methyl-, (4S)-, mixt. with N,N'-bis(4-nitrophenyl)urea and 4,6-dimethyl-2(1H)-pyrimidinone (9CI) (CA INDEX NAME)

CM 1

CRN 55134-13-9
CMF C43 H72 O11

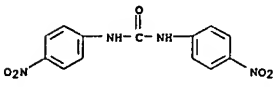
Absolute stereochemistry.



CM 2

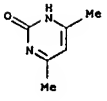
CRN 587-90-6
CMF C13 H10 N4 O5

L19 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



CM 3

CRN 108-79-2
CMF C6 H8 N2 O



L19 ANSWER 13 OF 15 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1989:502712 CAPLUS
DOCUMENT NUMBER: 111:102712
TITLE: Synergestic anticoccidial formulations containing either salinomycin or narasin
PATENT ASSIGNEE(S): Hoechst A.-G., Fed. Rep. Ger.
SOURCE: Jpn. Kokai Tokkyo Koho, 15 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 63239218	A	19881005	JP 1987-113718	19870512
JP 2579634	B2	19970205		
PRIORITY APPLN. INFO.:			JP 1986-110980	A1 19860516
			JP 1986-270006	A1 19861114

AB Synergistic anticoccidial formulations are prepared by combining (1) a compound selected from meticlorpindrol, methyl benzoquate, nicarbazin, amprolium, beclotiamine, halofuginone, and salts thereof, and (2) another compound selected from the group comprising salinomycin, narasin, physiol.
acceptable salts and esters thereof. The feeding of chickens with a feed containing salinomycin 30 and meticlorpindol 62.5 ppm, starting one day before
and ending 5 days after infection with Eimeria tenella was effective in controlling the coccidium disease, but the feeding a control diet containing
either salinomycin or meticlorpinol individually was not.

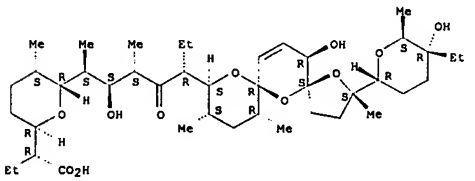
IT 122412-17-3 122412-18-4
RL: BIOL (Biological study)
(anticoccidial composition containing, synergistic)

RN 122412-17-3 CAPLUS
CN Salinomycin, mixt. with N,N'-bis(4-nitrophenyl)urea and 4,6-dimethyl-2(1H)-pyrimidinone (9CI) (CA INDEX NAME)

CM 1

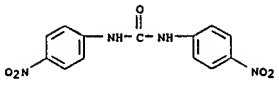
CRN 53003-10-4
CMF C42 H70 O11

Absolute stereochemistry.



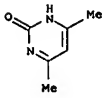
CM 2

CRN 587-90-6
CMF C13 H10 N4 O5



CM 3

CRN 108-79-2
CMF C6 H8 N2 O

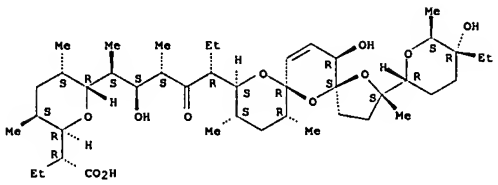


RN 122412-18-4 CAPLUS
CN Salinomycin, 4-methyl-, (4S)-, mixt. with N,N'-bis(4-nitrophenyl)urea and 4,6-dimethyl-2(1H)-pyrimidinone (9CI) (CA INDEX NAME)

CM 1

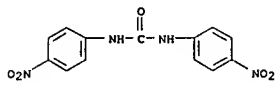
CRN 55134-13-9
CMF C43 H72 O11

Absolute stereochemistry.



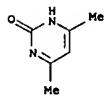
CM 2

CRN 587-90-6
CMF C13 H10 N4 O5



CM 3

CRN 108-79-2
CMF C6 H8 N2 O



ACCESSION NUMBER: 1989:63742 CAPLUS
DOCUMENT NUMBER: 110:63742
TITLE: Pharmaceuticals containing monensin and coccidiostats
INVENTOR(S): Raether, W.
PATENT ASSIGNEE(S): Hoechst A.-G., Fed. Rep. Ger.
SOURCE: Ger. Offen., 10 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3638446	A1	19880526	DE 1986-3638446	19861111
EP 268135	A2	19880525	EP 1987-116136	19871103
EP 268135	A3	19891206		
EP 268135	B1	19921216		
R: AT, BE, CH, DE, ES, FR, GB, IT, LI, NL				
AT 83379	T	19930115	AT 1987-116136	19871103
ES 2053501	T3	19940801	ES 1987-116136	19871103
US 4855299	A	19890808	US 1987-118322	19871109

PRIORITY APPLN. INFO.: DE 1986-3638446 A 19861111
EP 1987-116136 A 19871103

AB Pharmaceuticals contains monensin (I) or its salts in combination with ≥1 compds. selected from nicarbazin, amprolium, beclotamine, halofuginone, or methylbenzoaquat (II), or their salts; this pharmaceutical is useful for the treatment of coccidiosis. Chickens were fed a diet containing 50 ppm I Na salt and 2.5 ppm II from 1 day before to 5 days after infection with 200,000 sporulating oocytes of Eimeria tenella. Intestinal lesion scores ranged from 0 (no lesions) to 4 (hemorrhagic enteritis of severest degree); for the above treated chickens the lesion score was 0.3, whereas the chickens treated with 50 ppm I Na salt alone or 2.5 ppm II alone it was 2.5 and 1.9, resp.

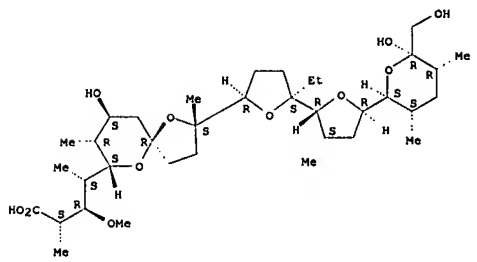
IT 118649-70-0
RL: BIOL (Biological study)
(coccidiostatic pharmaceutical, for poultry feed)

RN 118649-70-0 CAPLUS
CN Monensin, mixt. with N,N'-bis(4-nitrophenyl)urea and 4,6-dimethyl-2(1H)-pyrimidinone (9CI) (CA INDEX NAME)

CM 1

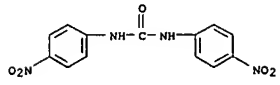
CRN 17090-79-8
CMF C36 H62 O11

Absolute stereochemistry.



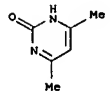
CM 2

CRN 587-90-6
CMF C13 H10 N4 O5



CM 3

CRN 108-79-2
CMF C6 H8 N2 O



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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	33.03	588.03

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-4.68	-4.68

STN INTERNATIONAL LOGOFF AT 19:28:48 ON 12 SEP 2007